

United States Patent and Trademark Office



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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/954,597	0	9/12/2001	Orville Phillip Frazee	469	8276	
28782	7590	01/29/2003				
WILLIAM I PO BOX 335			EXAMINER			
LOVELAND		539-0335		TAMAI, KARL I		
				ART UNIT	PAPER NUMBER	
				2834		
				DATE MAIL ED: 01/20/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	09/954,597	FRAZEE, ORVILLE PHILLIP					
	Examiner	Art Unit					
The MAILING DATE of this communication ap	Tamai IE Karl	2834					
Period for Reply	pears on the cover sneet with t	ne correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND g date of this communication, even if timely	be timely filed) days will be considered timely. from the mailing date of this communication.					
1) Responsive to communication(s) filed on	·						
2a) This action is FINAL . 2b)⊠ Th	nis action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.					
4) Claim(s) 1-12 is/are pending in the application	١.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-12</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o Application Papers	r election requirement.						
9)⊠ The specification is objected to by the Examine	r						
10)⊠ The drawing(s) filed on <u>12 September 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on	is: a) approved b) disap	proved by the Examiner					
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language production 15)☐ Acknowledgment is made of a claim for domestic	visional application has been r	eceived.					
Attachment(s)	2 33 1	···· -· · · · · · · · · · · · · · · · ·					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. S. Patent and Trademark Office	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)					

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Application/Control Number: 09/954,597

Art Unit: 2834

DETAILED ACTION

Specification

- 1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the plurality of electromagnets encased within the rotor must be shown or the feature canceled from the claim. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Application/Control Number: 09/954,597

Art Unit: 2834

5. Claims 6 and 12 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. The specification does not contain a full, clear, concise, and exact written description of how the electromagnets will be encased within the rotor.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-3, 5, 7-9, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patarchi (WO99/276635) and Shtipelman (US 4,922,145). Patarchi teaches every aspect of the invention except a non-magnetic housing. Shtipelman teaches the housing being non-magnetic. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Patarchi with a non-magnetic housing because Shtipelman teaches aluminum as the preferred material for the housing, and because a non-magnetic housing would reduce flux losses.

Application/Control Number: 09/954,597

Art Unit: 2834

Page 4

- 8. Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patarchi (WO99/276635) and Shtipelman (US 4,922,145), in further view of Lohr (US 3,566,165). Patarchi and Shtipelman teach every aspect of the invention except an output flange on the shaft. Lohr teaches an output flange 20 for driving a wheel. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Patarchi and Shtipelman with an output flange of Lohr to drive a wheel.
- 9. Claims 6 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patarchi (WO99/276635) and Shtipelman (US 4,922,145), in further view of Tawse (US 4,211,945). Patarchi and Shtipelman teach every aspect of the invention except the magnets being electromagnets. Tawse teaches that the rotor in a dynamoelectric machine can be a permanent magnet or electromagnet (Col. 5, lines 5-8). It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Patarchi and Shtipelman with the magnets being electromagnets because Tawse teaches permanent magnets and electromagnets are equivalents where it is within the ordinary skill in the art to choose between known equivalents, and because an electromagnet will provide more control over the strength of the magnetic field.
- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Obidniak (US 5,786,645), Miekka et al. (Miekka)(US 5,903,118).

Art Unit: 2834

Page 5

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (703) 305-7066.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Nestor Ramirez, can be reached at (703) 308-1371. The facsimile number for the Group is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Karl I Tamai PRIMARY PATENT EXAMINER January 24, 2003

> KARL JAMAI FIJIMARY EXAMINER